

AMENDMENTS TO THE CLAIMS

1-17. (Canceled)

18. (Currently Amended) A method for managing a recording medium having a data area
~~spare area of a write once optical disc possibly having a temporary defect management area~~
~~within one or more spare areas~~, the method comprising the steps of:

allocating a spare area in the recording medium and a user data area within the data area
~~one or more spare areas including the temporary defect management area~~ at an initial status of
the recording medium optical disc; and

during use of the recording medium optical disc,

reducing the size of the spare area, and

expanding the size of the user data area in correspondence with a reduction in the
size of the spare area.

~~an area except for the temporary defect management area in the spare area~~
~~allocated including the temporary defect management area to set a new spare area.~~

19-22. (Canceled)

23. (Currently Amended) A recording medium, comprising;
a data area including a spare area and a user data area, wherein
during use of the recording medium,

a size of the spare area is reduced, and

~~a size of the user data area is expanded in correspondence with a reduction in size of the spare area.~~

~~write once optical disc provided with a lead in area and a data area, at least one or more spare areas including a temporary defect management area being allocated in the data area, a new spare area being possibly set by expanding or reducing the spare area allocated including the temporary defect management area.~~

24-27. (Canceled)

28. (Currently Amended) An ~~optical record reproducing~~ apparatus ~~of~~ configured to manage a recording medium having a data area, a write once optical disc comprising:

a controller configured to

determine sizes of a spare area and a user data area, the spare area and the user data area allocated within the data area at an initial status of recording medium,

determine whether the initial size of spare area is reduced, and whether the initial size of the user data area is expanded, during use of the recording medium, and

generate a control command to record position information on the recording medium, the position information indicating a changed position of the user data area corresponding to a determined expansion of the size of the user data area.

~~a control part for determining whether or not an allocated spare area is reduced; and a recording/reproducing part for reducing a spare area including a temporary defect management area when it is necessary to reduce the spare area depending on the determination, and setting a~~

~~new spare area.~~

29. (Canceled)

30. (New) The method of claim 18, wherein the spare area includes a replacement area and a temporary defect management area, the replacement area storing data written defective area of the user data area and the temporary defect management area storing temporary defect management information.

31. (New) The method of claim 18, further comprising:

recording position information in the recording medium, the position information indicating a changed position of the user data area corresponding to the expanded size of the user data area.

32. (New) The method of claim 31, wherein the position information is last LSN (logical sector number) information.

33. (New) The method of claim 18, wherein the spare area has a maximum size at the initial status.

34. (New) The recording medium of claim 23, wherein the spare area includes a replacement area and a temporary defect management area, the replacement area configured to

manage defective area of the user data area and the temporary defect management area configured to store temporary defect management information.

35. (New) The recording medium of claim 23, further comprising:

a lead-in area configured to store position information, the position information indicating a changed position of the user data area corresponding to an expansion of the size of the user data area.

36. (New) The recording medium of claim 35, wherein the position information is last LSN (logical sector number) information.

37. (New) The apparatus of claim 28, wherein

the spare area includes a replacement area and a temporary defect management area, and the controller is configured to

manage the defective area of the user data using the replacement area, and record temporary defect management information in the temporary defect management area.

38. (New) The apparatus of claim 28, further comprising:

a pickup, operably coupled to the controller, configured to record the position information to the recording medium.

39. (New) The apparatus of claim 38, wherein the position information is last LSN (logical sector number) information.